Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	4th main	1	355.00	4.50	0.05	79.88			
	5th main	1	235.00	4.50	0.05	52.88			
	9th cross	1	115.00	4.15	0.05	23.86			
	12th cross	1	92.00	4.75	0.05	21.85			
	Anganwadi road	1	249.00	4.40	0.05	54.78			
						557.29			
	20% Profile correction					111.46			
						111.46	**Cum**	**6284.74**	**700487.69**
14	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder a and filler, transporting the hot mix to work site, laying with a paver finisher with to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects as per specifications. using40/60 TPH capacity H.M.P. with Mechanical Paver Gr II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-165,I No-21.22.6)								
	Basic rate	6683.00							
	Area weightage 6%	400.98							
	Total	**7083.98**							
	For Road								
	1st cross	1	151.00	4.80	0.04	28.99			
	2nd cross	1	148.00	4.00	0.04	23.68			
	3rd cross	1	140.00	4.20	0.04	23.52			
	4th cross	1	92.00	4.10	0.04	15.09			
	5th cross	1	89.00	6.10	0.04	21.72			
	6th cross	1	86.00	4.60	0.04	15.82			
	5th-6th connecting	1	35.00	5.00	0.04	7.00			
	7th cross	1	85.00	4.30	0.04	14.62			
	7th cross - LHS	1	71.00	5.00	0.04	14.20			
	2nd main	1	220.00	4.30	0.04	37.84			
	3rd main	1	215.00	6.60	0.04	56.76			
	4th main	1	355.00	4.50	0.04	63.90			
	5th main	1	235.00	4.50	0.04	42.30			
	9th cross	1	115.00	4.15	0.04	19.09			
	12th cross	1	92.00	4.75	0.04	17.48			
	Anganwadi road	1	249.00	4.40	0.04	43.82			
						445.83	**Cum**	**7083.98**	**3158279.14**
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No-185, I No-24.15)								
	Basic rate	512.00							
	Area weightage 6%	30.72							
	Total	**542.72**							
	For Road								
	1st cross	2.5	151.00	0.10		37.75			
	2nd cross	2.5	148.00	0.10		37.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	3rd cross	2.5	140.00	0.10		35.00			
	4th cross	2.5	92.00	0.10		23.00			
	5th cross	2.5	89.00	0.10		22.25			
	6th cross	2.5	86.00	0.10		21.50			
	5th-6th connecting	2.5	35.00	0.10		8.75			
	7th cross	2.5	85.00	0.10		21.25			
	7th cross - LHS	2.5	71.00	0.10		17.75			
	2nd main	2.5	220.00	0.10		55.00			
	3rd main	2.5	215.00	0.10		53.75			
	4th main	2.5	355.00	0.10		88.75			
	5th main	2.5	235.00	0.10		58.75			
	9th cross	2.5	115.00	0.10		28.75			
	12th cross	2.5	92.00	0.10		23.00			
	Anganwadi road	2.5	249.00	0.10		62.25			
						594.50	Sqm	542.72	322647.04
								Total Construction Cost	9458662.26
								DPR Charges	91,000.00
								PMC Charges	100000.00
								Sub Total	9649662.26
								Miscellaneous & Rounding off	350337.74
						GRAND TOTAL			10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017.and Data Rates

Assistant Engineer,
Yelahanka Project Division,
BBMP Bangalore

Asst. Exec. Engineer,
Yelahanka Project Division,
BBMP Bangalore

Asst. Executive Enginee
Project Division
Yelahanka Zone
Bangalore

Executive Engineer,
Yelahanka Project Division,
BBMP Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads and Drains at Kattigenahalli Kuvempunagara Cross Roads in Ward No 05 Byatarayanapura Sub division

Est Cost: =40.0Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Kuvempunagara								
	6th Cross LHS		2	65.00	0.50	0.45	29.25		
	7th Cross LHS		2	75.00	0.50	0.45	33.75		
	8th Cross LHS		2	75.00	0.50	0.45	33.75		
	9th Cross LHS		2	60.00	0.50	0.45	27.00		
	6th Cross RHS		2	95.00	0.50	0.45	42.75		
	7th Cross RHS		2	85.00	0.50	0.45	38.25		
	8th Cross RHS		2	80.00	0.50	0.45	36.00		
	9th Cross RHS		2	90.00	0.50	0.45	40.50		
	Kuvempunagara								
	Main Road		2	160.00	0.50	0.45	72.00		
	cross Road 1		2	55.00	0.50	0.45	24.75		
							378.00	186.92	**70655.76**
2	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Kuvempunagara								
	6th Cross LHS		1	65.00	4.90	0.23	73.26		
	7th Cross LHS		1	75.00	4.80	0.23	82.80		
	8th Cross LHS		1	75.00	4.90	0.23	84.53		
	9th Cross LHS		1	60.00	4.40	0.23	60.72		
	6th Cross RHS		1	95.00	4.40	0.23	96.14		
	7th Cross RHS		1	85.00	5.30	0.23	103.62		
	8th Cross RHS		1	80.00	4.90	0.23	90.16		
	9th Cross RHS		1	90.00	3.90	0.23	80.73		
	Kuvempunagara								
	Main Road		1	160.00	5.50	0.23	202.40		
	cross Road 1		1	55.00	4.60	0.23	58.19		
	Cross Roads		3	40.00	4.90	0.23	135.24		
							1067.78	155.16	**165675.97**

3	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix 'acadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Kuvempunagara	Cum							
	6th Cross LHS		1	65.00	4.90	0.23	73.26		
	7th Cross LHS		1	75.00	4.80	0.23	82.80		
	8th Cross LHS		1	75.00	4.90	0.23	84.53		
	9th Cross LHS		1	60.00	4.40	0.23	60.72		
	6th Cross RHS		1	95.00	4.40	0.23	96.14		
	7th Cross RHS		1	85.00	5.30	0.23	103.62		
	8th Cross RHS		1	80.00	4.90	0.23	90.16		
	9th Cross RHS		1	90.00	3.90	0.23	80.73		
	Kuvempunagara								
	Main Road		1	160.00	5.50	0.23	202.40		
	cross Road 1		1	55.00	4.60	0.23	58.19		
	Cross Roads		3	40.00	4.90	0.23	135.24		
							1067.78	1768.08	**1887911.62**
4	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Kuvempunagara	Sqm							
	6th Cross LHS		1	65.00	4.90	--	318.50		
	7th Cross LHS		1	75.00	4.80	--	360.00		
	8th Cross LHS		1	75.00	4.90	--	367.50		
	9th Cross LHS		1	60.00	4.40	--	264.00		
	6th Cross RHS		1	95.00	4.40	--	418.00		
	7th Cross RHS		1	85.00	5.30	--	450.50		
	8th Cross RHS		1	80.00	4.90	--	392.00		
	9th Cross RHS		1	90.00	3.90	--	351.00		
	Kuvempunagara								
	Main Road		1	160.00	5.50	--	880.00		
	cross Road 1		1	55.00	4.60	--	253.00		
	Cross Roads		3	40.00	4.90	--	588.00		
							4642.50	27.56	**127947.30**
5	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	Kuvempunagara	Sqm							
	For Laying BC								
	6th Cross LHS		1	65.00	4.90	--	318.50		
	7th Cross LHS		1	75.00	4.80	--	360.00		
	8th Cross LHS		1	75.00	4.90	--	367.50		
	9th Cross LHS		1	60.00	4.40	--	264.00		
	6th Cross RHS		1	95.00	4.40	--	418.00		
	7th Cross RHS		1	85.00	5.30	--	450.50		
	8th Cross RHS		1	80.00	4.90	--	392.00		
	9th Cross RHS		1	90.00	3.90	--	351.00		

	Kuvempunagara								
	Mai Road		1	160.00	5.50	--	880.00		
	cross Road 1		1	55.00	4.60	--	253.00		
	Cross Roads		3	40.00	4.90	--	588.00		
							4642.50	11.66	**54131.55**
6	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Kuvempunagara	Cum							
	6th Cross LHS		1	65.00	4.90	0.04	12.74		
	7th Cross LHS		1	75.00	4.80	0.04	14.40		
	8th Cross LHS		1	75.00	4.90	0.04	14.70		
	9th Cross LHS		1	60.00	4.40	0.04	10.56		
	6th Cross RHS		1	95.00	4.40	0.04	16.72		
	7th Cross RHS		1	85.00	5.30	0.04	18.02		
	8th Cross RHS		1	80.00	4.90	0.04	15.68		
	9th Cross RHS		1	90.00	3.90	0.04	14.04		
	Kuvempunagara								
	Main Road		1	160.00	5.50	0.04	35.20		
	cross Road 1		1	55.00	4.60	0.04	10.12		
	Cross Roads		3	40.00	4.90	0.04	23.52		
							185.70	7083.98	**1315495.09**
7	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line	Sqm	2	960.00	0.10	--	192.00		
							192.00	542.72	**104202.24**
								Total Construction Cost	**3726019.530**
8								**Cost towards Preparation of DPR LS**	**37261.00**
9								**Cost towards PMC / Third Party inspection LS**	**37261.00**
								Sub Total	**3800541.53**
10								**Miscellaneous and rounding off**	**199458.47**
								Total	**4000000.00**

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer

Assistant Executive Engineer
Project Division
Velahanka Zone
Bangalore

Executive Engineer
Executive Engineer
Project Division
Velahanka Zone
Bangalore

20/11/17

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads and Drains at Dwarakanagar Srirama Temple Road in Ward No 05 Byatarayanapura Sub division

Est Cost: =30.0Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Removing B.S Slab of Drain and Stacking (P.No.25, I.No.5.32 of PW, P&IWTD SR 2016-17)								
	Dwarakanagar (bagalur Mn Rd to Netaji Rd)	Sqm							
	BS Slab Drain								
	LHS								
	Ch 0 -240		1	240.00	1.80	--	432.00		
	RHS								
	Ch 0 - 365		1	365.00	1.80	--	657.00		
							1089.00		
	consider 30% missing / damaged						-326.70		
							762.30		
							762.30	65.72	**50098.36**
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Dwarakanagar (bagalur Mn Rd to Netaji Rd)	Cum							
	Desilting								
	LHS								
	Ch 0 -240		1	240	0.40	0.50	48.00		
	RHS								
	Ch 0 - 365		1	365	0.40	0.50	73.00		
	New								
	Culverts		2	5.50	1.60	1.20	21.12		
							142.12	186.92	**26565.07**
3	Refixing Stone Slabs of Drains and pointing in C M (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
		Sqm							
	same as Qty 1		--	--	--	--	**762.30**	80.56	**61410.89**
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
	New Drain	Sqm							
	same as Qty 1						**326.70**	665.68	**217477.66**
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Dwarakanagar (bagalur Mn Rd to Netaji	Cum							
	Flagging Course / Raising of BS Drain								
	LHS								
	Ch 0 -240		2	240.00	0.20	0.10	9.60		
	RHS								
	Ch 0 - 365		2	365.00	0.20	0.10	14.60		
	New								
	Culverts		2.00	5.50	1.60	0.15	2.64		
							26.84	5348.76	**143560.72**